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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,609	05/18/2004	William Wang	12790-US-PA	3608
31561 7590 07/28/2008 JIANQ CHYUN INTELLECTUAL PROPERTY OFFICE 7 FLOOR-1, NO. 100 ROOSEVELT ROAD, SECTION 2 TAIPEI, 100 TAIWAN			EXAMINER VIDWAN, JASJIT S	
			ART UNIT 2182	PAPER NUMBER
			NOTIFICATION DATE 07/28/2008	DELIVERY MODE ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

USA@JCIPGROUP.COM.TW
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Office Action Summary	Application No.		Applicant(s)	
	10/709,609		WANG, WILLIAM	
	Examiner		Art Unit	
	JASJIT S. VIDWAN		2182	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period **will** apply and **will** expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply **will**, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 April 2008.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 and 7-10 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-5 and 7-10 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments/amendments see remarks, filed 04/01/08, with respect to the rejection(s) of claim(s) 1-5 & 7-10 under Pattisam have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Geiger et al.

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-5, 7-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Geiger et al, U.S. Pub No: 2003/0061457 [**herein after Geiger**] and further in view of Karpoff et al U.S. Patent No: 6,857,059 [**herein after Karpoff**].

1. **As per Claim 1 & 5**, Geiger teaches a data compression/decompression device, suitable for compressing/decompressing, an uncompressed/compressed data transmitted between a data generation device and a data storage device, comprising:

(a) Input buffer [**see Fig. 11, element 252**], for buffering and storing said uncompressed/compressed data for input [**see Paragraph 0135 – “...As shown, the DME channel 204 may write data (compressed or uncompressed) to the input buffer...”**]

(b) Output buffer [**see Fig. 11, element 254**], for buffering and storing said data for output [**see Paragraph 0135 – “...and read resultant data produced by the codec 250 (uncompressed or compressed, respectively) from the output buffer**]

(c) Data compressor/decompressor **[see Fig. 11, element 250]**, coupled to said output buffer, for compressing/decompressing said data for input and storing said data for output in said output buffer **[see Paragraph 0140]**

(d) Controller **[see Fig. 12, element 204]**, coupled to said input buffer, said output buffer and said data compressor/decompressor, for controlling data transmission with said data generation device and said data storage device controlling compressing/decompressing said data **[see Paragraphs 0142 - 0145]**

Geiger teaches the above limitations in addition to teaching a system wherein the controller provides address mapping in relation to data provided by the data generation device and the storage disk **[see Paragraphs 0146-0155]**. However despite the above teachings, Pattisam fails to expressly teach performing the above function by way of “address mapping table” which is the cross reference between an access address transmitted from data generation device and physical address of storing the data in said data storage device.

Karpoff teaches the above deficiency by teaching a system wherein the microprocessor manages the mapping table which is the cross reference between an access address transmitted from data generation device (host) and a physical address of storing the data in data storage device **[see Karpoff, Col. 4, Lines 23-36]**. It would have been obvious to one of ordinary skill in the art at the time of Applicant's invention to combine the two teachings in order to take advantage of having a system where the host application never has to deal with volume resizing and spare capacity can be amortized across multiple disk images, thus lowering the cost associated with “on reserve” storage capacity **[see Karpoff, Col. 3, Lines 46-64]**

2. **As per Claim 2 and 7**, Geiger as modified by Karpoff above teaches a device wherein said controller includes:

(a) Data generation control unit, for controlling data transmission with said data generation device **[see Fig. 10, element 500 operating on element 110]**

(b) Data storage control unit, for controlling data transmission with said data storage device **[see Fig. 10, element 310]**

(c) Data extractor, for obtaining said data from said input buffer, extracting a compressing/decompressing portion of said data, and sending said compression/decompression portion of said data to said data compressor / decompressor [see Paragraph 0160]

(d) Main control unit for coordinating and controlling said data generation control unit, said data storage control unit, and said data extractor, and for managing said address mapping [see Fig. 5B, element 100]

3. **As per Claim 3 and 8**, Geiger as modified by Karpoff above teaches a device wherein said data generation device is at least one of a host, a laptop computer, a microprocessor, an interface card and a router [see Fig. 8, element 100]

4. **As per Claim 4 and 9**, Geiger as modified by Karpoff above teaches a device wherein said data storage device is at least one of a hard disk drive, floppy disk drive, a CD-RW drive, a magnetic-optical device, a digital video recorder and a flash memory card [see Fig. 8, element 330]

5. **As per Claim 10**, Geiger as modified by Karpoff above teaches wherein said data transmission interface is one of an IDE interface, 1394 interface, a SCSI interface, a serial interface, a serial attached SCSI interface, a PCMCIA interface and a USB interface [see Fig. 11, element 264 - Examiner takes official notice as it would be obvious to use one of the above interfaces in a computer system].

Conclusion

6. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JASJIT S. VIDWAN whose telephone number is (571)272-7936. The examiner can normally be reached on 8am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tariq Hafiz can be reached on 571.272.6729. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. S. V./
Examiner, Art Unit 2182
7/18/08

/Tariq Hafiz/
Supervisory Patent Examiner, Art Unit 2182